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Total Number of Pages in This Submission

19

Application Number	10572,778
Filing Date	March 21, 2006
First Named Inventor	Stefan Berg, et. al.
Art Unit	Not Known
Examiner Name	Not Known
Attorney Docket Number	101192-1P US

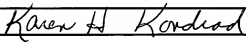
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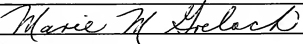
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24 References |
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SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	AstraZeneca Pharmaceuticals (address associated with Customer No. 22466)		
Signature			
Printed name	Karen H. Kondrad		
Date	July 18, 2006	Reg. No.	38,212

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.: 10/572,778	Applicant: Stefan Berg, et. al.
371 Filing Date: March 21, 2006	Attorney Docket No.: 101192-1P US
Examiner: Not Known	Group Art Unit : Not Known
Customer No.: 22466	Confirmation No.: Not Known
Title: 3-Heterocyclyl-Indole Derivatives as Inhibitors of Glycogen Synthase Kinase-3 (GSK3)	

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Marie M. Greloch

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Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir,

Applicants submit herewith a list of patents and publications pursuant to the duty to disclose in accordance with 37 C.F.R. § 1.56.

In accordance with 37 C.F.R. § 1.97 (g) and (h), the filing of this Information Disclosure Statement shall not be construed as a representation that a search has been made or that the information cited is material to patentability as defined in 37 C.F.R. § 1.56.

In accordance with the U.S. Patent Office's partial waiver of the requirement under 37 C.F.R. 1.98(a)(2)(i), only copies of the foreign patent documents and non-patent publications are enclosed.

REMARKS

In accordance with the provisions of 37 C.F.R. 1.97, this statement is being filed:

- ☒ (1) within three (3) months of the **filing date** of a national application other than a continued prosecution application under 37 C.F.R. 1.53(d), or within three (3) months of the **date of entry of the national stage** as set forth in 37 C.F.R. 1.491 in an international application, or before the mailing of the **first Office Action** on the merits, or before the mailing of a **first Office Action** after the filing of a request for continued examination under 37 C.F.R. 1.114; or
- ☐ (2) after the period defined in (1) but before the mailing date of a **final Action** or a **Notice of Allowance** under 37 C.F.R. 1.311, and
- ☐ the requisite Statement is below, **OR**
- ☐ the Commissioner is hereby authorized to charge the requisite fee under 37 C.F.R. 1.17(p), namely **\$180.00** to deposit account No. _____, referencing Attorney Docket No. _____, or
- ☐ (3) after the mailing date of a **final Action** or **Notice of Allowance** but before the payment of the **Issue Fee, AND**
- ☐ the requisite Statement is below, **AND**
- ☐ the Commissioner is hereby authorized to charge the requisite fee under 37 C.F.R. 1.17(p), namely **\$180.00** to deposit account No. _____, referencing Attorney Docket No. _____, or

It is respectfully requested that each of the patents and publications listed on the attached Form SB08, and other information contained herein, be considered by the Examiner and made of record in this application

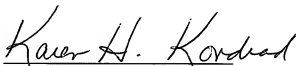
Although Applicants believe no fees are due, the Commissioner is hereby authorized to charge any deficiency in the fees or credit any overpayment to deposit account No. 26-0166 referencing Attorney Docket No. 101192-1P US.

STATEMENT

As required under 37 C.F.R. 1.97(e), Applicant(s), through the undersigned, hereby state either that:

- ☐ (1) Each item of information contained in the Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application **not more than three months** prior to the filing of the Information Disclosure Statement; or
- ☐ (2) No item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing this Statement after making reasonable inquiry, no item of information contained in the Information Disclosure Statement was known to **any individual** designated in 37 C.F.R. 1.56(c) **more than three months** prior to the filing of the Information Disclosure Statement.

Respectfully submitted,



Name: Karen H. Kondrad
Dated: July 18, 2006
Reg. No.: 38,212
Phone No.: 302.886.8975

Global Intellectual Property, Patents,
AstraZeneca,
1800 Concord Pike,
Wilmington,
DE-19850-5437

Enclosures: Form SB08A
Form SB08B

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Complete if Known

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of 2

Application Number	10/572,778
Filing Date	March 21, 2006
First Named Inventor	Stefan Berg
Art Unit	Not Known
Examiner Name	Not Known
Attorney Docket Number	101192-1P US

[illegible]

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	†
		Country Code* Number* Kind Code* (if known)				
KBJ ↓ ↓	A1	WO 03/055877 A1	07-10-2003	Stefan Berg, et. al.		
	A2	WO 03/055492 A1	07-10-2003	Stefan Berg, et. al.		
	A3	WO 03/053330 A2	07-03-2003	Stefan Berg, et. al.		
	A4	WO 02/30868 A1	04-18-2002	Gribkoff, et. al.		
	A5	WO 01/27081 A1	04-19-2001	Heckel, et. al.		
	A6	WO 03/082853 A1	10-09-2003	Stefan Berg, et. al.		

04/16/2009

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Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet	2	of	2
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Complete if Known

Application Number	10/572,778
Filing Date	March 21, 2006
First Named Inventor	Stefan Berg
Art Unit	Not Known
Examiner Name	Not Known
Attorney Docket Number	101192-1P US

U. S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.†	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	†
[K.B.]	A7	Country Code* Number * Kind Code* (if known) WO 97/42187	11.13.1997	Thomas, et. al.		
	A3					
	A4					
	A5					
	A6					

Examiner Signature	/Kristin Bianchi/	Date Considered	04/16/2009
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*EXAMINER: Include if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Initial copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). ² See Kind Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document to the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Translation is not needed.
An application is required for 37 CFR 1.97 and 1.98. The translation is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet	1	of	2	Application Number	10/572,778
				Filing Date	March 21, 2006
				First Named Inventor	Stefan Berg
				Art Unit	Not Known
				Examiner Name	Not Known
				Attorney Docket Number	101192-1P US

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
/K.B./	A8	Imahori and Uchida, "Physiology and Pathology of Tau Protein Kinases in Relation to Alzheimer's Disease", J. Biochem, Vol. 121, page 179-188, 1997	
	A9	Hoshi, et al., "Regulation of Mitochondrial pyruvate . . . Kinase 3 β in Brain", PNAS, vol. 93, pages 2719-2723, 1996	
	A10	Bhat, et. al., "Regulation and Localization of Tyrosine . . . Neuronal Degeneration", PNAS, vol. 97, page 11074-11079, 2000	
	A11	Stamolic, et. al., "Lithium Inhibits Glycogen Synthase . . . in Intact Cells", Curr. Biol., Vol. 6, pages 1664-1668, 1996	
	A12	Klein and Melton, "A Molecular Mechanism for the Effect of Lithium on Development", PNAS, vol. 93, page 8455-8459, 1996	
	A13	Kozlovsky, et. al., "Low GSK-3 β Immunoreactivity . . . of Schizophrenic Patients", Am. J. Psychiatry 2000 May, Vol 157(5), page 831-833	
	A14	Cotter, et. al., "Abnormalities of Wnt Signalling . . . Neurodevelopmental Abnormality", Neuroreport, vol. 9, page 1379-1383, 1998	
	A15	Nikoulina, et. al., "Potential Role of Glycogen . . . of Type 2 Diabetes", Diabetes 2000 Feb., Vol 49(2), pages 263-271	
	A16	Gat, et. al., "De Novo Hair Follicle . . . a Truncated β -Catenin in Skin", Cell, 1998 Nov. 25, vol. 95(5), page 605-614	
✓	A17	Vijayaraghavan, et. al., "A Role for Phosphorylation . . . Motility Regulation", Biol. Reprod., 2000 June, vol. 62(6), page 1647-1654	

Examiner Signature	/Krislin Bianchi/	Date Considered	04/16/2009
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Application Number	10/572,778
Filing Date	March 21, 2006
First Named Inventor	Stefan Berg
Art Unit	Not Known
Examiner Name	Not Known
Attorney Docket Number	101192-1P US

Sheet 2 of 2

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
/K.B./	A18	Naegeli, et. al., "2-Amino-Pyridin-5- . . . Abkommlinge", Helv. Chim. Acta., Vol. 21, pages 1746-1756, 1938	
	A19	Sun, et. al., "Identification of Substituted 3- . . . Tyrosine Kinases", J. Med. Chem. Bol. 43(14), pages 2655-2663 (2000)	
	A20	Tilley, et. al., "Synthesis of Heterocyclic Analogs of α -Methylglutamate", J. Heterocyclic Chem., Vol. 16, Pages 333-337, 1979	
	A21	Krapcho, et. al., "Antispasmodics. I. Basic Amides of Benzoic Acid", J. Am. Chem. Soc., Vol. 77, pages 3632-3634, 1955	
	A22	Li Sun, et. al., "Design, Synthesis, and Evaluations of Substituted . . . Tyrosine Kinases", J. Med Chem., Vol 42, pages 5120-5130, 1999	
	A23	L. Thunus, "Synthese et Proprietes . . . (Substitution 2,5) (*)", Annales Pharmaceutiques Francaises, vol. 35, pages 197-204, 1977	
↓	A24	Tobias, et. al., "Novel Therapeutic Targets in Osteoporosis", Expert Opinion on Therapeutic Targets, Feb 2002, pages 41-46	

Examiner Signature	/Kristin Bianchi/	Date Considered	04/16/2009
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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